|   |          |               |           |              |           |          |          |          |          |                             |  |          |                     | /76       | 6,318        |               |         |           |                |          |       |       |            | BERG, VERNON R. |         |          |          |                |                     |          |           |  |  |
|---|----------|---------------|-----------|--------------|-----------|----------|----------|----------|----------|-----------------------------|--|----------|---------------------|-----------|--------------|---------------|---------|-----------|----------------|----------|-------|-------|------------|-----------------|---------|----------|----------|----------------|---------------------|----------|-----------|--|--|
|   |          |               |           |              |           |          |          |          |          |                             |  |          | Examiner            |           |              |               |         |           |                |          |       |       | Art Unit   |                 |         |          |          |                |                     |          |           |  |  |
|   |          |               |           |              |           |          |          |          |          |                             |  |          |                     |           | Bret C Hayes |               |         |           |                |          |       |       |            | 3644            |         |          |          |                |                     |          |           |  |  |
|   |          |               |           |              |           |          |          |          |          |                             |  |          |                     | 1         |              | <u> </u>      | -       | ,         |                |          |       |       |            |                 |         | ••       |          |                |                     |          |           |  |  |
|   |          |               | 1         | Rejected     |           |          |          |          | _        | (Through numer<br>Cancelled |  |          |                     |           | al)          |               |         |           | Non-El         |          | ected |       | A          | Appeal          |         |          |          |                |                     |          |           |  |  |
|   |          |               |           | Allowed      |           |          |          | Ì        | ÷        | •                           | Restricted                                       |          |                     |           |              |               |         | +         | Interference   |          |       |       | 0          | Objected        |         |          |          |                |                     |          |           |  |  |
| • |          | Į             | =         |              |           |          |          |          |          |                             |  |          |                     |           | [            |               |         |           |                |          |       |       |            |                 | 1       |          |          |                |                     |          |           |  |  |
|   | Clai     | $\overline{}$ | - 1       | -            | 1         | Date     | e<br>I I |          |          | Claim                       |  |          |                     |           |              |               | te      | _         | CI             |          |       | Cla   | aim        |                 |         |          | Date     | e              |                     |          | $\exists$ |  |  |
|   | Final    | Original      | 10/20/04  |              |           |          |          |          |          |                             | Final  | Original |                     |           |              |               |         |           |                |          |       | Final | Original   |                 |         |          |          |                |                     | ŀ        |           |  |  |
|   |          |               |           | $\downarrow$ | 1         | L        |          |          | 4        | _                           |  |          | Ш                   |           | _            | _             | 1       | _         | 44             | _        | ļ     | _     |            |                 | 4       | $\perp$  | Ļ        | <u> </u>       | Ц                   |          | ╛         |  |  |
|   | $\vdash$ | 1 2           | 쉬         | +            | +         | $\vdash$ | $\vdash$ | $\dashv$ | $\dashv$ | $\dashv$                    | <u> </u>   | 51<br>52 | Н                   | $\dashv$  | +            | ╁             | ╁       | ╁         | $\dashv\dashv$ | $\dashv$ | ł     |       | 101<br>102 | $\vdash$        | +       | ╁        | ╁        | ├              | $\vdash$            | +        | $\dashv$  |  |  |
|   |          | 3             | П         |              |           |          |          |          |          |                             |  | 53       |                     |           |              |               |         | I         |                |          | ţ     |       | 103        |                 |         |          |          |                |                     |          |           |  |  |
|   | $\vdash$ | 4             | +         | - -          | +         | ┞        | -        | 4        | 4        | 4                           |  | 54       | Н                   | 4         | -            | 4             | +       | $\bot$    | $\perp$        | 4        | -     |       | 104        |                 | _       | 4        |          | L              |                     | _        |           |  |  |
|   | $\vdash$ | 5             | H         | +            | ╁         | ┝        | H        | -        | $\dashv$ | $\dashv$                    |  | 55<br>56 | Н                   | $\dashv$  | +            | +             | ╁       | ╀         | ++             | $\dashv$ | ŀ     |       | 105<br>106 | $\dashv$        | +       | ╁        | $\vdash$ | ┢              | $\vdash$            | +        | $\dashv$  |  |  |
|   |          | 7             | П         |              |           |          |          |          | 丁        |                             |  | 57       |                     | $\exists$ |              |               | 1       | †         |                |          | t     |       | 107        | $\dashv$        | $\top$  | +        | İ        | 十              | H                   | +        | -         |  |  |
|   |          | 8             | $\coprod$ |              | _         | <u> </u> |          |          | 4        | 4                           |  | 58       |                     |           | $\dashv$     | _             | Ţ       | Ţ         | $\Box$         | $\Box$   |       |       | 108        |                 | $\perp$ | T        |          |                | П                   |          | $\Box$    |  |  |
|   | $\vdash$ | 9<br>10       | ╫         |              | +         | ⊢        | $\vdash$ | $\dashv$ | +        | $\dashv$                    |  | 59<br>60 | Н                   | -         | +            |               | +       | ╀         | +              | $\dashv$ | ŀ     |       | 109<br>110 |                 | -       | +        | -        | -              | $\vdash \vdash$     | +        | 4         |  |  |
|   |          | 11            | $\dagger$ | +            | ╁         | $\vdash$ |          | $\dashv$ | $\dashv$ | $\dashv$                    | <u> </u>   | 61       | Н                   | $\dashv$  | ┰            | +             | +       | ╁╴        | +              | $\dashv$ | H     |       | 111        | $\vdash$        | -       | +        | +-       | $\vdash$       | $\vdash$            | +        | $\dashv$  |  |  |
|   |          | 12            | 1         |              |           |          |          |          |          |                             |  | 62       |                     |           |              |               |         | 上         |                |          |       |       | 112        |                 |         |          |          |                |                     |          |           |  |  |
|   |          | 13            | 4         |              | +         | ├-       | Н        | 4        | +        | 4                           |  | 63       | Ш                   | 4         | $\dashv$     | $\perp$       | $\perp$ | $\bot$    | 4-4            | 4        | -     |       | 113        | $\perp$         | $\perp$ | 1        | <u> </u> | <u> </u>       | $\Box$              | _ _      |           |  |  |
|   |          | 14            | $\dashv$  | +            | +-        | ┢        | H        | -        | +        | ┥                           | <del></del>                                      | 64<br>65 | $\vdash$            | $\dashv$  | +            | ╌             | ╁       | ╁         | + +            | $\dashv$ | . }   |       | 114<br>115 | -+              | +       | ╁        |          | ┢              | $\vdash$            | +        | -         |  |  |
|   |          | 16            | T         | ┪            |           |          |          |          | +        |                             |  | 66       | Н                   |           | $\top$       | $\top$        | 十       | t         | 1 1            | $\dashv$ | ŀ     |       | 116        |                 | +       | +-       | +-       | <del>  -</del> | $\vdash$            | +        | ┨         |  |  |
|   |          | 17            | $\Box$    | $\Box$       | $\bot$    |          |          |          |          |                             |  | 67       |                     | $\Box$    |              | ightharpoonup | Ţ       |           | П              |          |       |       | 117        |                 | I       |          |          |                |                     |          |           |  |  |
|   |          | 18<br>19      |           | +            | ╀         | -        | $\vdash$ | -        | +        | -                           | <u> </u>   | 68<br>69 | Н                   | 4         |              | - -           | +       | +         |                | $\dashv$ | ŀ     |       | 118<br>119 | -               | +       | +        | ├-       | <b> </b>       | $\vdash \vdash$     |          | 4         |  |  |
|   |          | 20            | $\dashv$  | +            | +         | ┢        | Н        | ᅥ        | ╅        | -                           | <del>                                     </del> | 70       |                     | $\dashv$  | $\dashv$     | +             | ╁       | +         | ++             | $\dashv$ | ŀ     | -     | 120        | $\dashv$        | +       | +        | ╁╌       | -              | $\vdash$            | +        | $\dashv$  |  |  |
|   |          | 21            |           |              | 匚         |          |          |          |          |                             |  | 71       |                     |           |              | 工             |         | Ĺ         |                |          | Į     |       | 121        |                 | 士       |          |          |                |                     |          | 7         |  |  |
|   |          | 22<br>23      | 4         | -            | ╄         | L        | Н        | 4        | _        | _                           | <u> </u>   | 72       |                     | $\dashv$  | $\perp$      | 4             | 4       | 1         | $\Box$         | _        |       |       | 122        | _               | Т       | $\perp$  | oxdot    |                | П                   | $\perp$  |           |  |  |
|   |          | 23            | -         | +            | ╁╴        | $\vdash$ | $\vdash$ | $\dashv$ | +        | $\dashv$                    |  | 73<br>74 | $\vdash \vdash$     | +         | +            | +-            | +       | ╀         | ╁┼             | ႕        | -     |       | 123<br>124 | -               | ╀       | ╀        |          | ┝              | -                   | +        | 4         |  |  |
|   |          | 25            |           |              | 1         |          |          |          | 十        | 7                           |  | 75       | Н                   | $\dashv$  | 十            | +             | 十       | $\dagger$ | 1 1            | $\dashv$ | ŀ     |       | 125        | $\dashv$        | +       | ╁        | $\vdash$ | ┢              | $\vdash$            | $\dashv$ | ┪         |  |  |
|   |          | 26            |           | $\perp$      |           |          |          | $\Box$   |          |                             |  | 76       |                     |           |              |               | I       |           |                | $\Box$   |       |       | 126        |                 |         | I        |          |                |                     |          | ]         |  |  |
|   |          | 27<br>28      | $\dashv$  | +            | ┼-        | -        | $\vdash$ | -        |          | 4                           |  | 77<br>78 | $\vdash \vdash$     | -         |              | +             | +       | ╀-        | +              | 4        | ŀ     |       | 127        |                 | +       | $\bot$   | ـ        | <u> </u>       | $\sqcup \downarrow$ | $\perp$  | _         |  |  |
|   |          | 29            | +         | +            | +         | H        | H        | $\dashv$ | $\dashv$ | $\dashv$                    |  | 79       | Н                   | +         | +            | ╁             | +       | +         | +              | $\dashv$ | -     |       | 128<br>129 | $\dashv$        | +       | ╁        | ╁        | -              | H                   | +        | -         |  |  |
|   |          | 30            |           |              |           |          |          |          |          |                             |  | 80       |                     |           |              |               | İ       |           |                |          | t     |       | 130        | $\top$          | +       | 十        |          |                | $\vdash$            | 十        | ┪         |  |  |
|   |          | 31            | 4         | -            | ╀-        | _        | Ш        | _        | 4        | 4                           |  | 81       | Ш                   | 4         | _            | _             | 1       | L         |                | 4        |       |       | 131        |                 | $\perp$ | Ţ.       |          |                | Д.                  |          |           |  |  |
|   |          | 32<br>33      | +         | +            | ╁         | $\vdash$ | $\vdash$ | $\dashv$ | $\dashv$ | $\dashv$                    | -  | 82<br>83 | $\vdash$            | $\dashv$  | -            | +             | +       | ╀         | ++             | $\dashv$ | ŀ     |       | 132<br>133 | -+              |         | +        | -        | -              | $\dashv$            | -        | 4         |  |  |
|   |          | 34            | 寸         | +            | $\dagger$ |          | H        | $\dashv$ | $\top$   | ┨                           |  | 84       | H                   | $\dashv$  | +            | +             | +       | +-        | † †            | ┪        | ŀ     |       | 134        | +               | +       | +        |          |                | +                   | ╅        | $\dashv$  |  |  |
|   |          | 35            | $\Box$    |              |           |          |          |          |          |                             |  | 85       |                     |           |              |               |         |           |                |          |       |       | 135        | 士               | 工       |          |          |                | $\Box$              |          | 7         |  |  |
|   |          | 36<br>37      | +         | +            | $\perp$   |          | $\vdash$ | _        | 4        | 4                           |  | 86<br>87 | Н                   | -         | - -          | +             | $\bot$  | $\perp$   | 1-1            | 4        | ļ     | -     | 136        |                 | _ _     | ļ        |          |                | $\Box$              |          | ]         |  |  |
|   |          | 38            | 十         | +            | ╁         |          | $\vdash$ | +        | +        | -                           | <u> </u>   | 88       | H                   | -+        | +            | ┰             | ╁       | +         | ╂              | ᅱ        | ŀ     |       | 137<br>138 | +               | +-      | +        | -        | $\vdash$       | +                   | - -      | -         |  |  |
|   |          | 39            |           |              |           |          |          | コ        |          | _                           |  | 89       |                     |           |              | 1             | $\top$  | T         | +              | ┪        | f     |       | 139        | $\dashv$        | +       | 十        | $\vdash$ | Н              | $\dashv$            | ╁        | $\dashv$  |  |  |
|   |          | 40            | 4         |              | $\vdash$  | Ĺ        |          |          | _[_      | 4                           |  | 90       |                     | $\Box$    | _[           | $\perp$       | Ţ       | I         | П              | ╗        | Į     |       | 140        |                 | I       |          |          |                |                     |          |           |  |  |
|   |          | 41<br>42      | +         | +-           | $\vdash$  | $\vdash$ | $\vdash$ | $\dashv$ | - -      | $\dashv$                    | $\vdash\vdash\vdash$                             | 91<br>92 | $\dashv$            | +         | +            | +             | +       | +         | +-+            | $\dashv$ | ŀ     |       | 141<br>142 | _               | +       | $\vdash$ | $\vdash$ | $\vdash$       | -                   | 1        | 4         |  |  |
|   |          | 43            | _         |              |           | H        | $\dashv$ | 7        | +        | $\dashv$                    | <b> </b>   | 93       | H                   | $\forall$ | +            | +             | +       | +-        | ╁              | $\dashv$ | H     |       | 143        | +               | +       | ╁        | $\vdash$ | Н              | +                   | ┿        | $\dashv$  |  |  |
|   |          | 44            |           | $\perp$      |           |          |          | $\Box$   | $\perp$  |                             |  | 94       |                     |           |              | 1             |         |           |                |          | Ĺ     |       | 144        | $\perp$         | $\perp$ |          |          |                |                     |          | _         |  |  |
|   |          | 45<br>46      | $\dashv$  | 4            | +         | Ш        | $\dashv$ | $\dashv$ | +        | -                           |  | 95<br>96 | $\vdash \downarrow$ | 4         | -            | +             | $\perp$ | 1         | 1-1            | $\dashv$ | F     |       | 145        | _Ţ              | 1       |          |          | П              | $oldsymbol{\perp}$  | $\bot$   | 7         |  |  |
|   |          | 46<br>47      | +         | +            | $\vdash$  | $\vdash$ | -        | $\dashv$ | +        | $\dashv$                    | -  | 96       | $\dashv$            | $\dashv$  | +            | +             | +       | ╁         | ╁              | $\dashv$ | -     |       | 146<br>147 | +               | +       | +        | Н        | Н              |                     | +        | 4         |  |  |
|   |          | 48            | 1         |              |           |          |          | 丁        |          |                             |  | 98       |                     | 士         | 士            |               |         | İ         |                |          | ľ     |       | 148        | _†              | $\top$  | T        | $\Box$   | H              | $\dashv$            | +        | 1         |  |  |
|   |          | 49<br>50      | 4         | $\bot$       | $\vdash$  | Ц        |          | $\bot$   | $\perp$  | 4                           |  | 99       | $\dashv$            | Ţ         | T            | I             | L       |           | $\Box$         |          | Ţ     |       | 149        | $\Box$          | $\perp$ | $\Gamma$ | $\Box$   |                | $\Box$              | 工        | ]         |  |  |
|   | 1 1      | 3U I          | - 1       | 1            | 1 1       | 1        | - 1      | - 1      | - 1      |                             | . !  | 100      | - 1                 | - 1       | - 1          | - 1           | 1       | 1         | 1 1            | - 1      | 1     | - 1   | 150        | - 1             | - 1     | 1        | ıl       | . 1            | 1                   | - 1      | 1         |  |  |

Application No.

Index of Claims

Applicant(s)